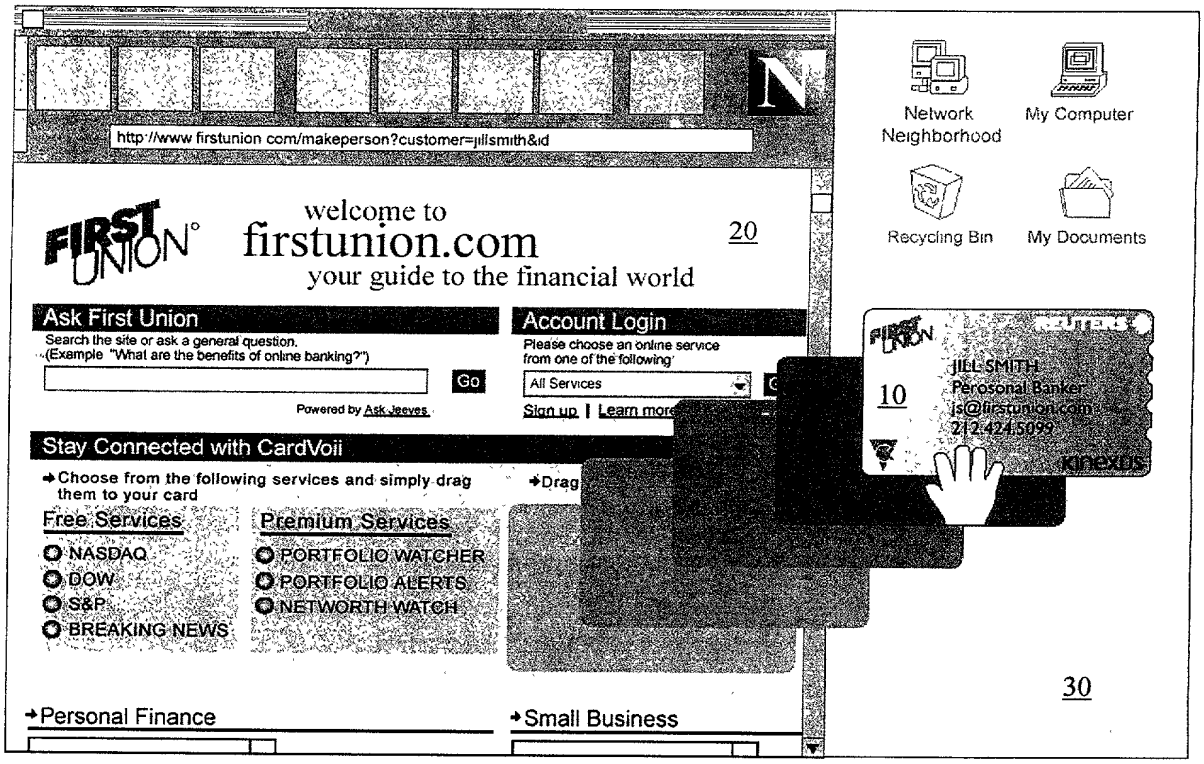
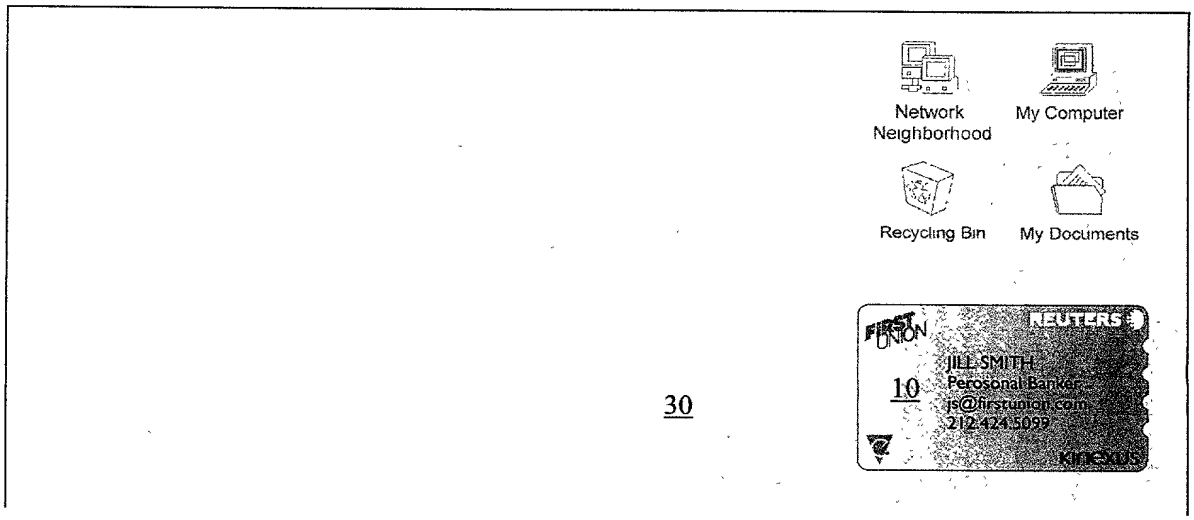

http://www.firstunion.com/makeperson?customer=jillsmith&id
FIRST UNION
welcome to
firstunion.com
your guide to the financial world
20
Ask First Union
Search the site or ask a general question.
(Exemple "What are the benefits of online banking?")
Go
Powered by Ask Jeeves
Account Login
Please choose an online service from one of the following
All Services
Sign up | Learn more
Stay Connected with CardVoii
Choose from the following services and simply drag them to your card
Drag
Free Services
NASDAQ
DOW
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
Personal Finance
Small Business
Network Neighborhood
My Computer
Recycling Bin
My Documents
10
JILL SMITH
Personal Banker
js@firstunion.com
212.424.5099
Kinexus
30

FIG. 1


Network Neighborhood
My Computer
Recycling Bin
My Documents
30
FIRST UNION
REUTERS
10
JILL SMITH
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212.424.5099
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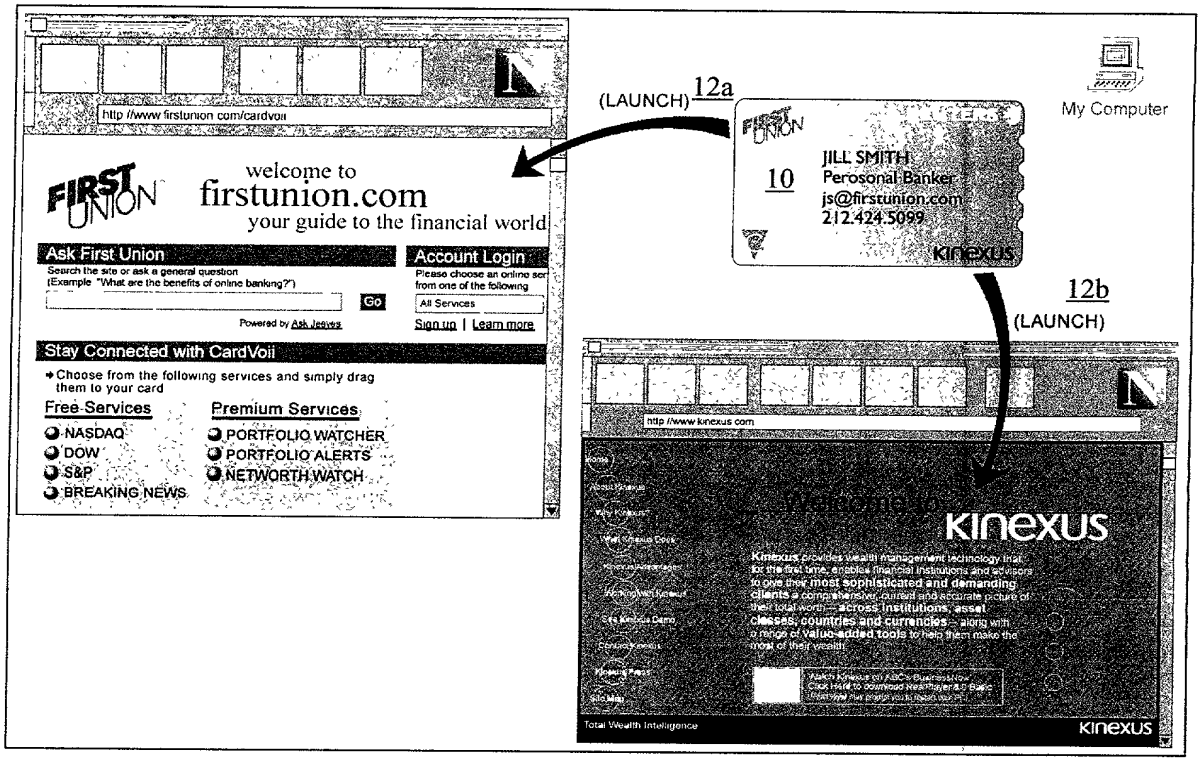
FIG. 2


http://www.firstunion.com/cardvoii
FIRST UNION
welcome to
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Ask First Union
Search the site or ask a general question
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Free Services
NASDAQ
DOW
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
(LAUNCH) 12a
FIRST UNION
10
JILL SMITH
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KINEXUS
My Computer
12b
(LAUNCH)
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Kinexus provides wealth management technology that, for the first time, enables financial institutions and advisors to give their most sophisticated and demanding clients a comprehensive, current and accurate picture of their total worth — across institutions, asset classes, countries and currencies — along with a range of value-added tools to help them make the most of their wealth.
Total Wealth Intelligence
KINEXUS

FIG. 3

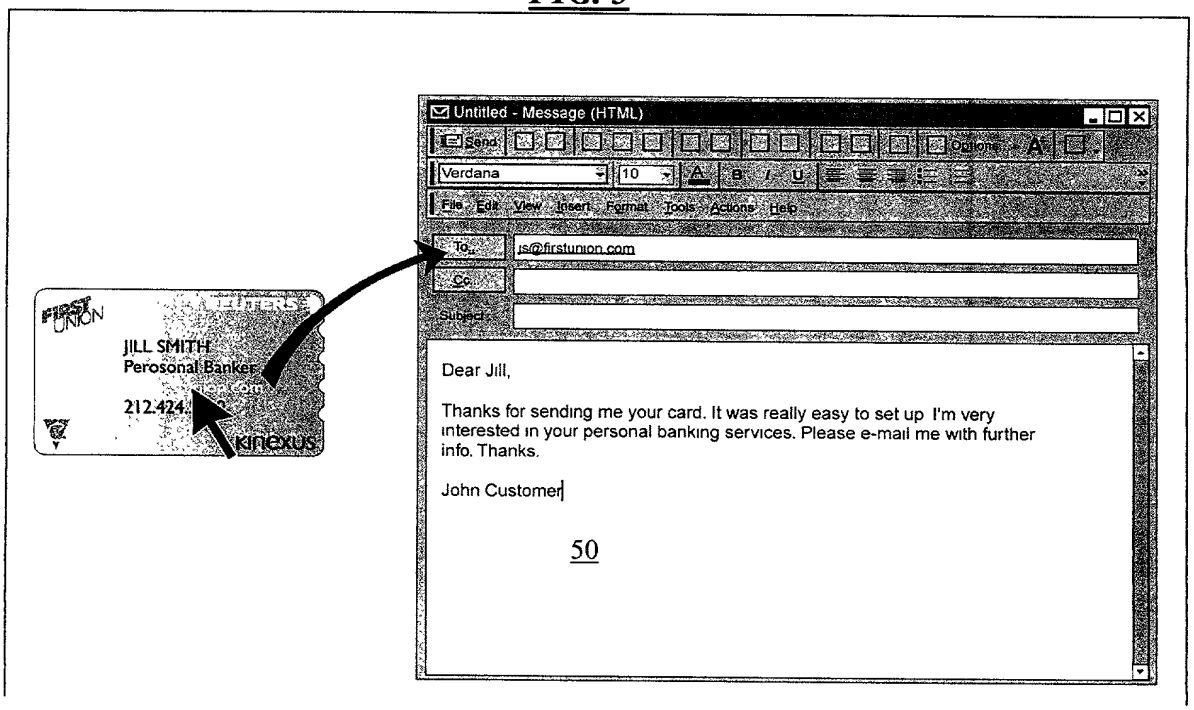
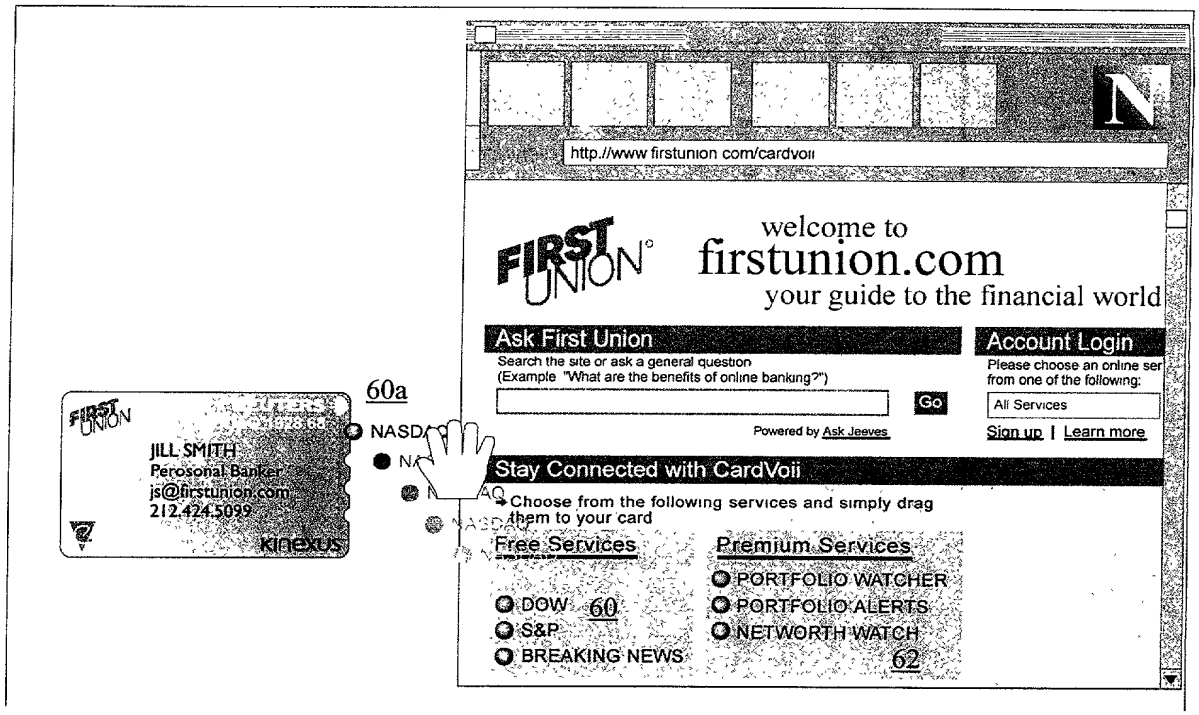

FIRST UNION
JILL SMITH
Perosonal Banker
212.424
KINEXUS
Untitled - Message (HTML)
Send
Options
Verdana
10
File Edit View Insert Format Tools Actions Help
To...
js@firstunion.com
Cc...
Subject:
Dear Jill,
Thanks for sending me your card. It was really easy to set up I'm very interested in your personal banking services. Please e-mail me with further info. Thanks.
John Customer
50

FIG. 4


http://www.firstunion.com/cardvoii
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(Example "What are the benefits of online banking?")
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Please choose an online ser
from one of the following:
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60a
JILL SMITH
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kinexus
Stay Connected with CardVoii
Choose from the following services and simply drag them to your card
Free Services
DOW 60
S&P
BREAKING NEWS
Premium Services
PORTFOLIO WATCHER
PORTFOLIO ALERTS
NETWORTH WATCH
62

FIG. 5

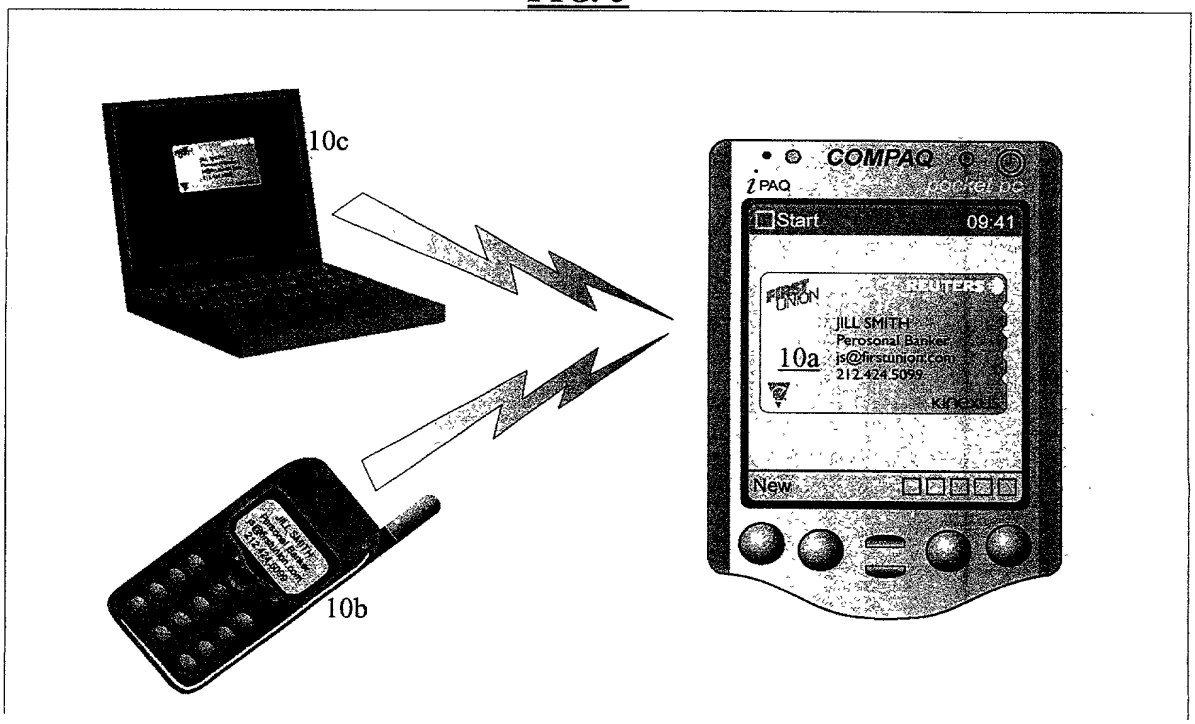

10c
10b
COMPAQ
iPAQ
Start
09:41
JILL SMITH
Perosonal Banker
10a
js@firstunion.com
212.424.5099
New

FIG. 6

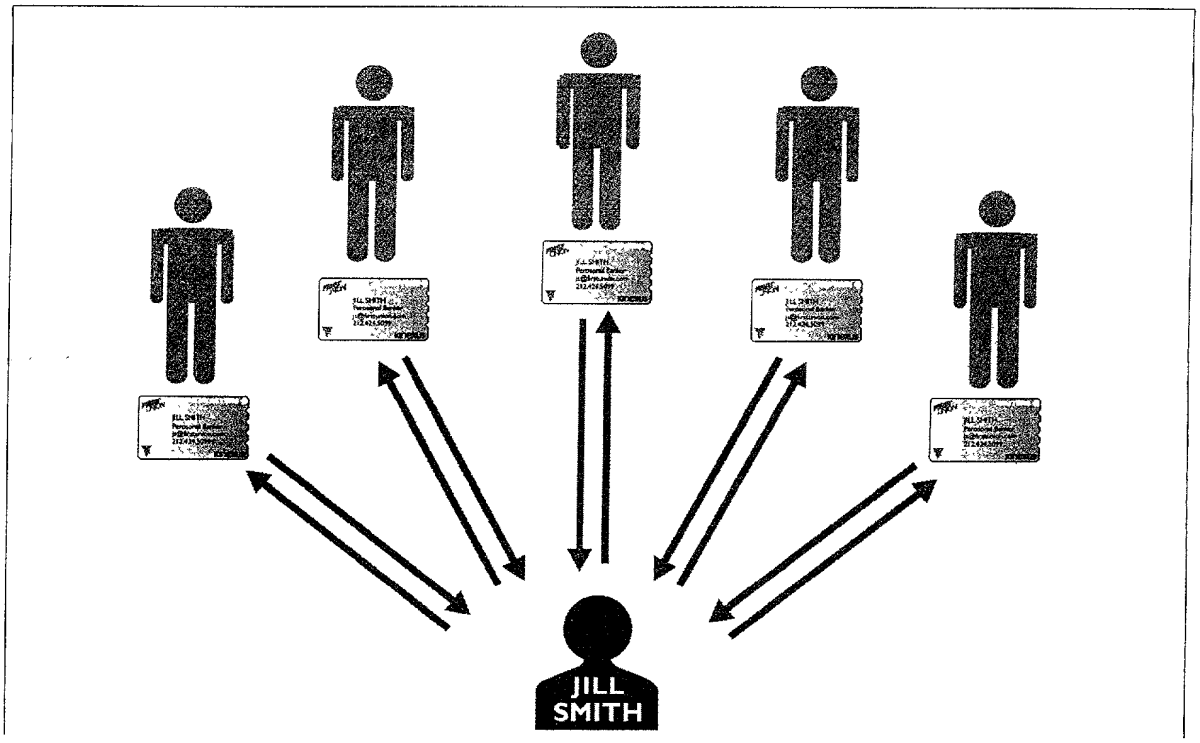


FIG. 7

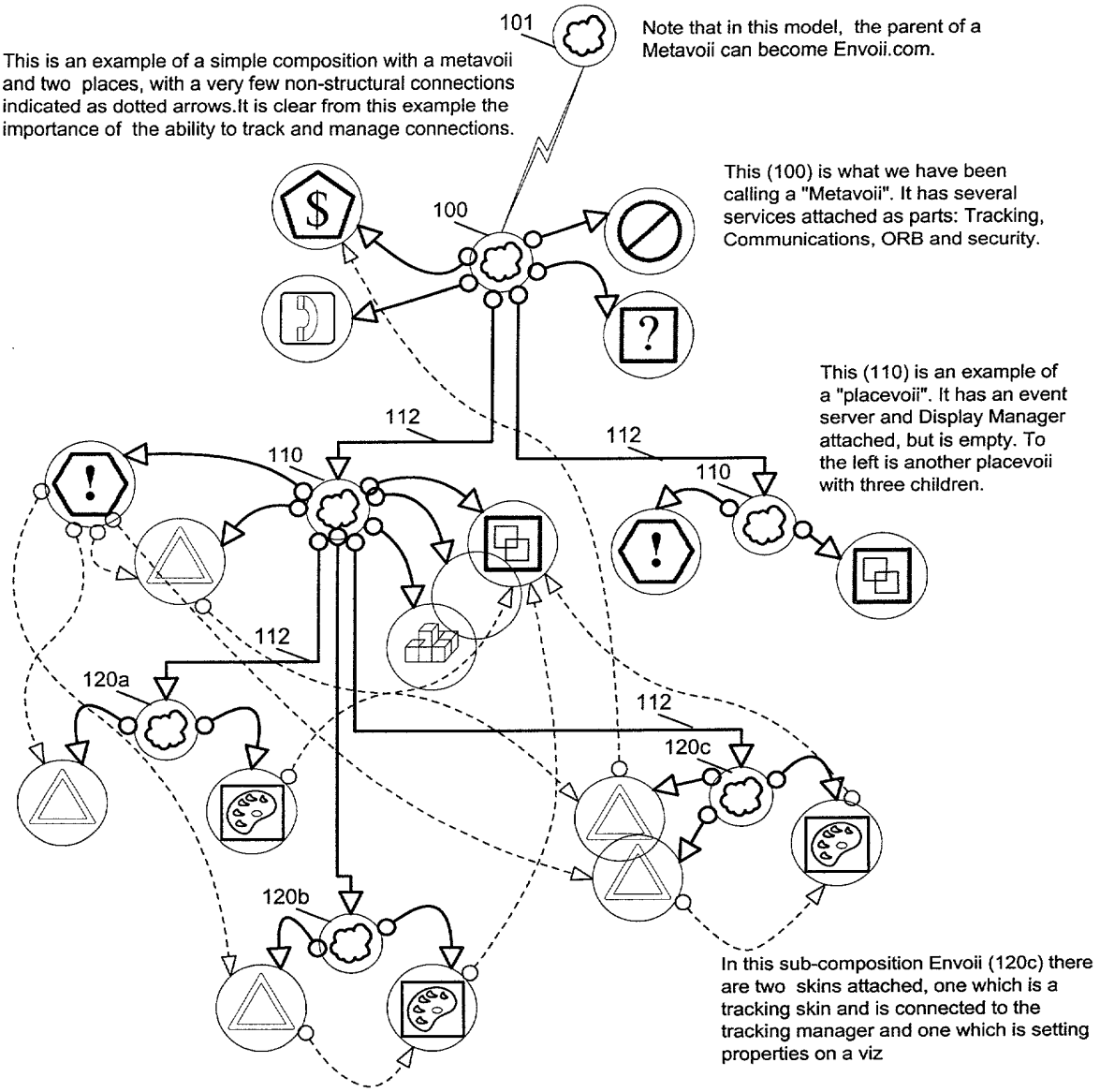
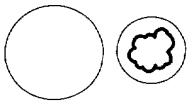
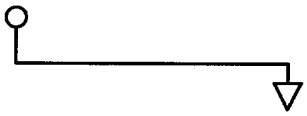

101
Note that in this model, the parent of a Metavoii can become Envoii.com.
This is an example of a simple composition with a metavoii and two places, with a very few non-structural connections indicated as dotted arrows.It is clear from this example the importance of the ability to track and manage connections.
100
This (100) is what we have been calling a "Metavoii". It has several services attached as parts: Tracking, Communications, ORB and security.
112
112
110
110
This (110) is an example of a "placevoii". It has an event server and Display Manager attached, but is empty. To the left is another placevoii with three children.
112
120a
112
120c
120b
In this sub-composition Envoii (120c) there are two skins attached, one which is a tracking skin and is connected to the tracking manager and one which is setting properties on a viz

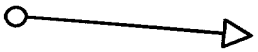
FIG. 8



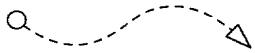
These are Envoiis (or "Enodes"). As an instance of a class, it provides generic graph interface. The connection points are representative of open set of "ports" which enable connections to other enodes.



This is a "Kid" connection, which is a specialization of a "Part" connection. It is the primary glue which is used by designers in building compositions. It effectively hel implement a tree-hierarchy as in the current system.



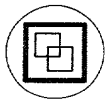
This is a "Part" connection. Part connectiions are structural, and enforce a part/part-c protocol.



This is a representative dynamic connection. Some such connections may be transient, and others not.

This is a "skin", and it bears a part-of relationship to an envoy.

This is a "Viz" and it bears a part-of relationship to an envoy.



This is a "DisplayManager". It is a part of an envoy which provides a rendering service.

This is an "Event Service".

FIG. 9

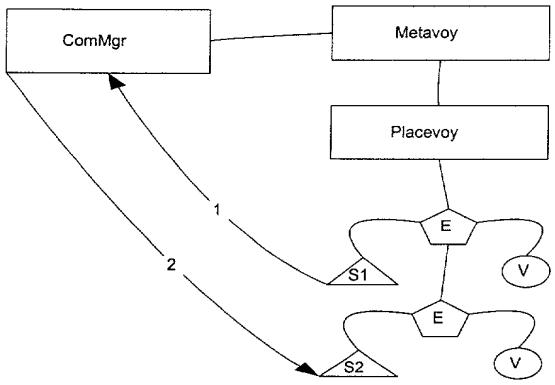

ComMgr
Metavoy
Placevoy
E
V
S1
S2
1
2

FIG. 10

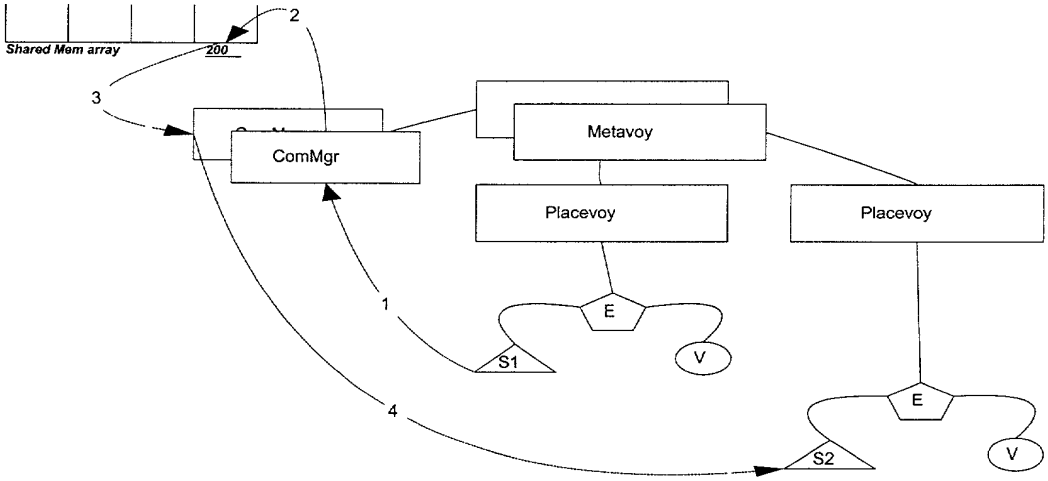

Shared Mem array
200
2
3
ComMgr
Metavoy
Placevoy
Placevoy
E
V
S1
S2
1
4

FIG. 11

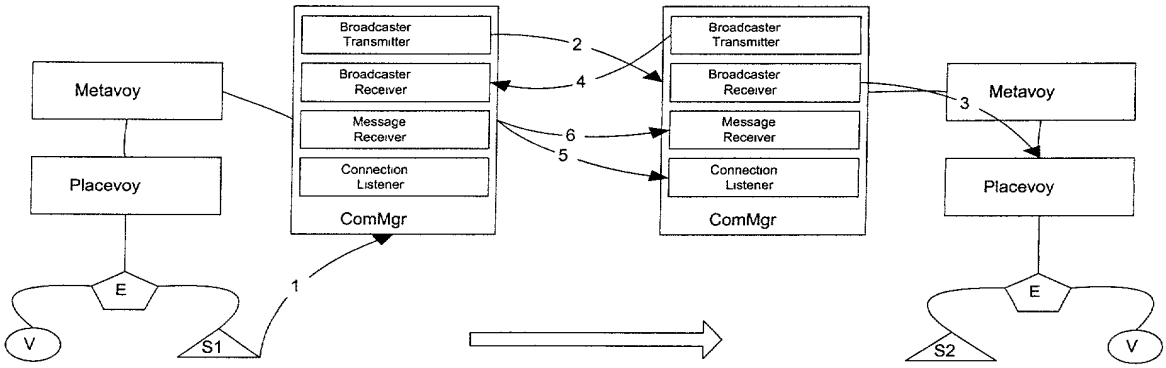


FIG. 12

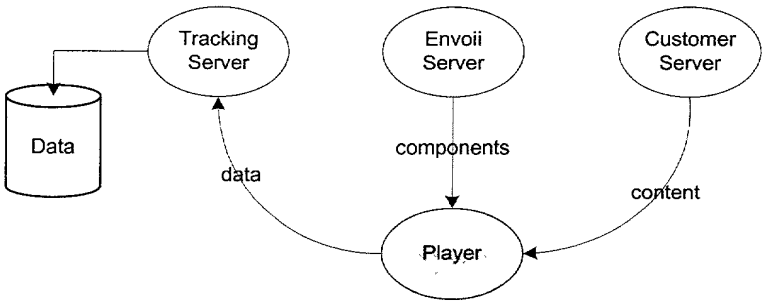


FIG. 13

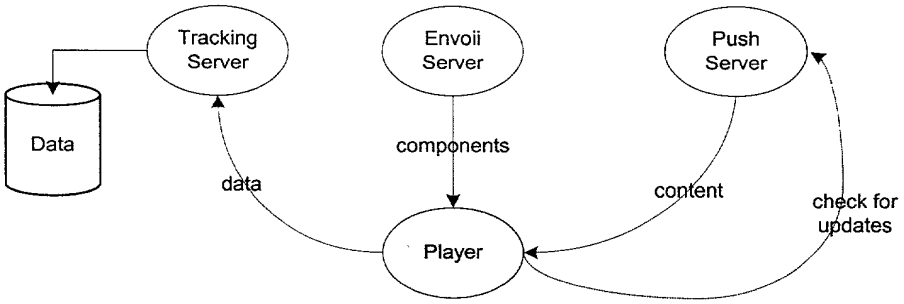


FIG. 14

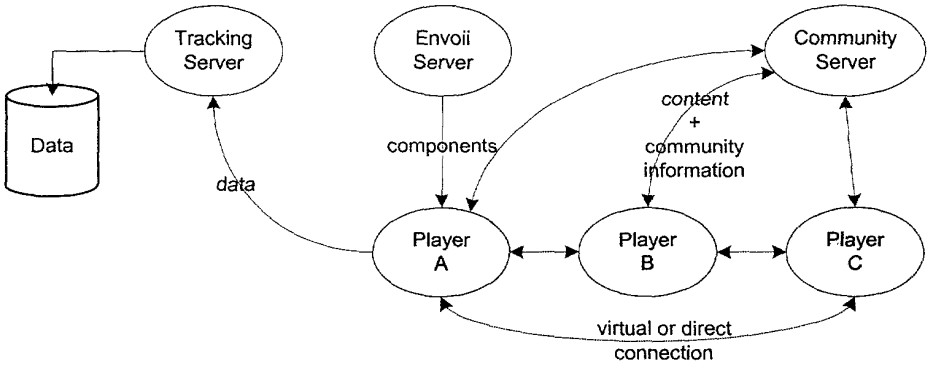


FIG. 15

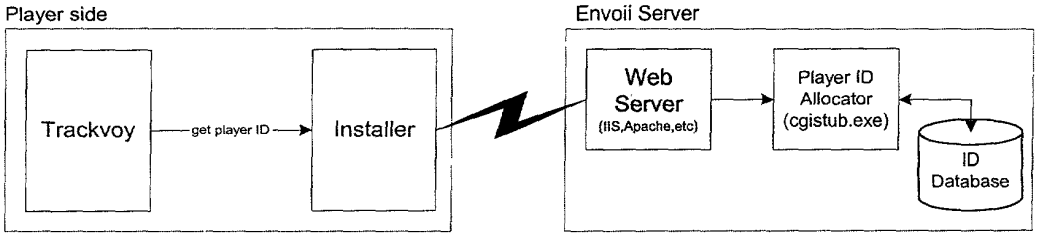


FIG. 16

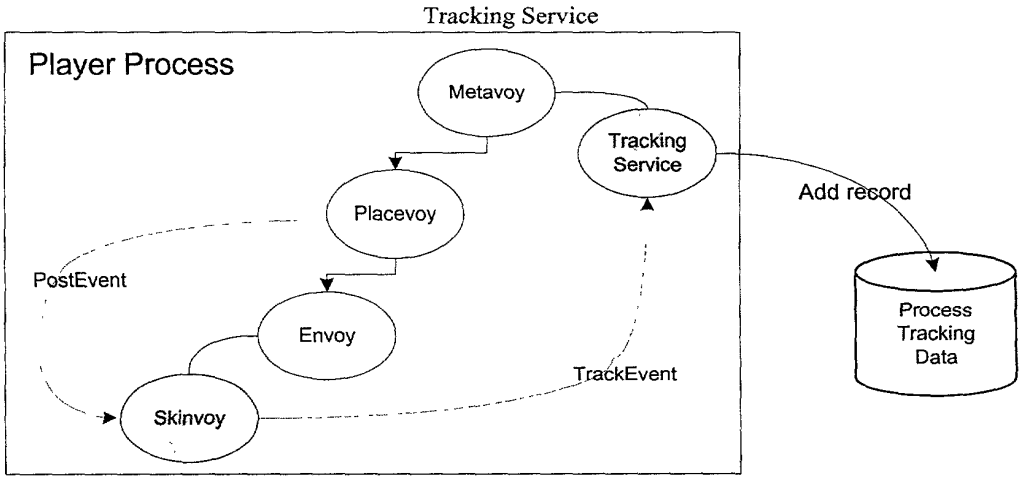


FIG. 17

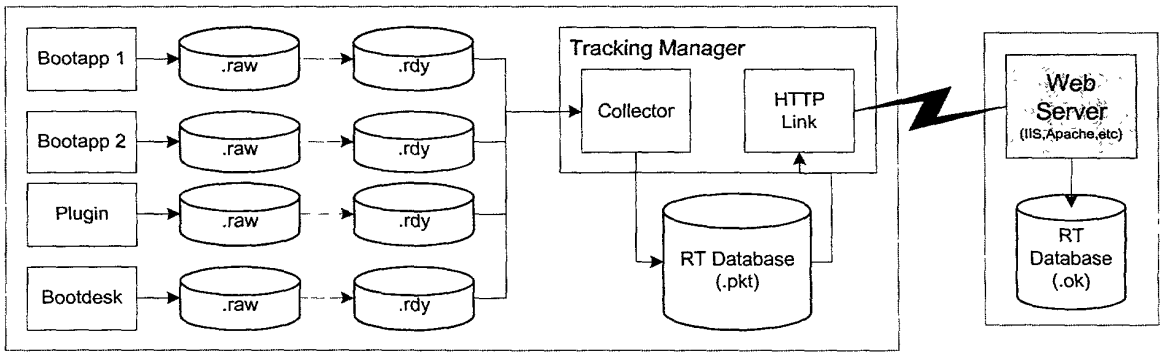


FIG. 18

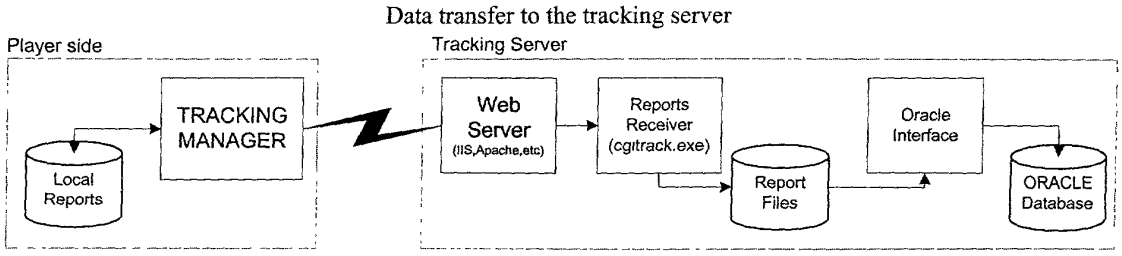


FIG. 19

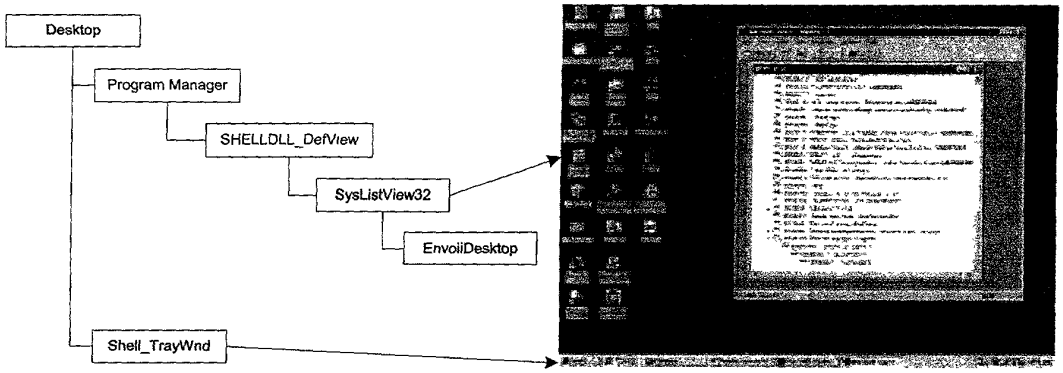


FIG. 20

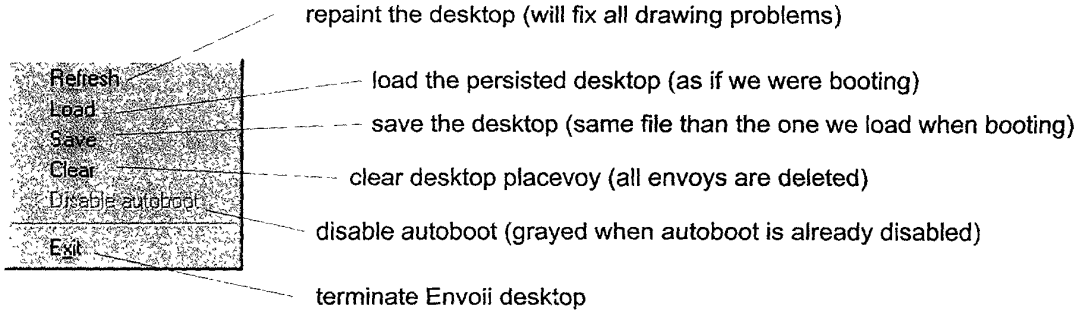


FIG. 21

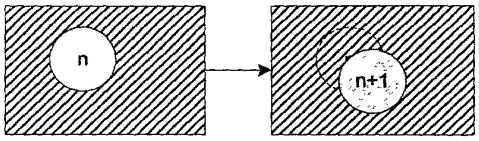


FIG. 22

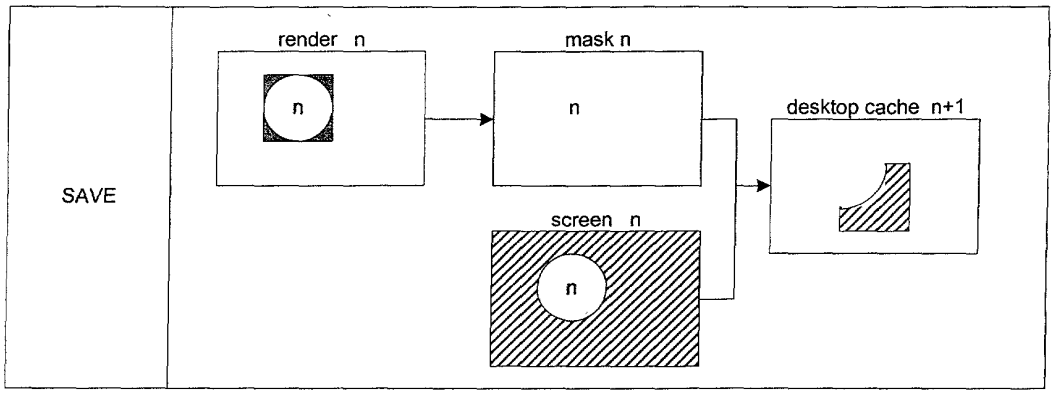


FIG. 23

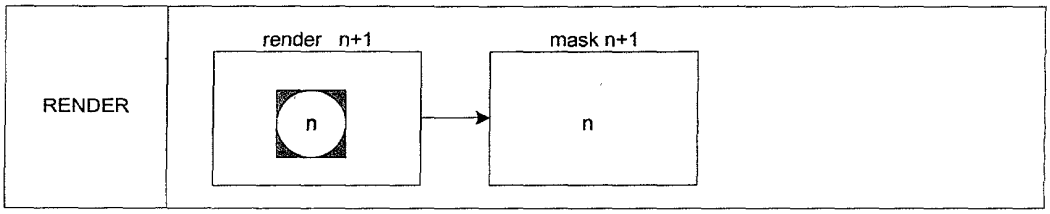


FIG. 24

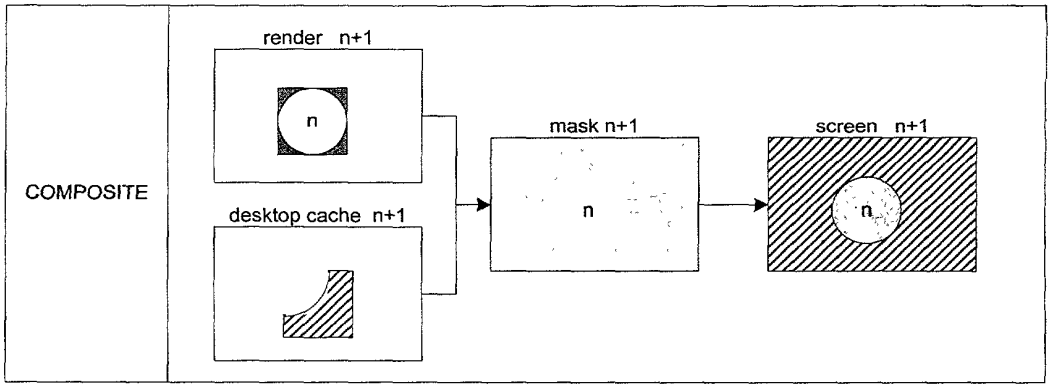


FIG. 25

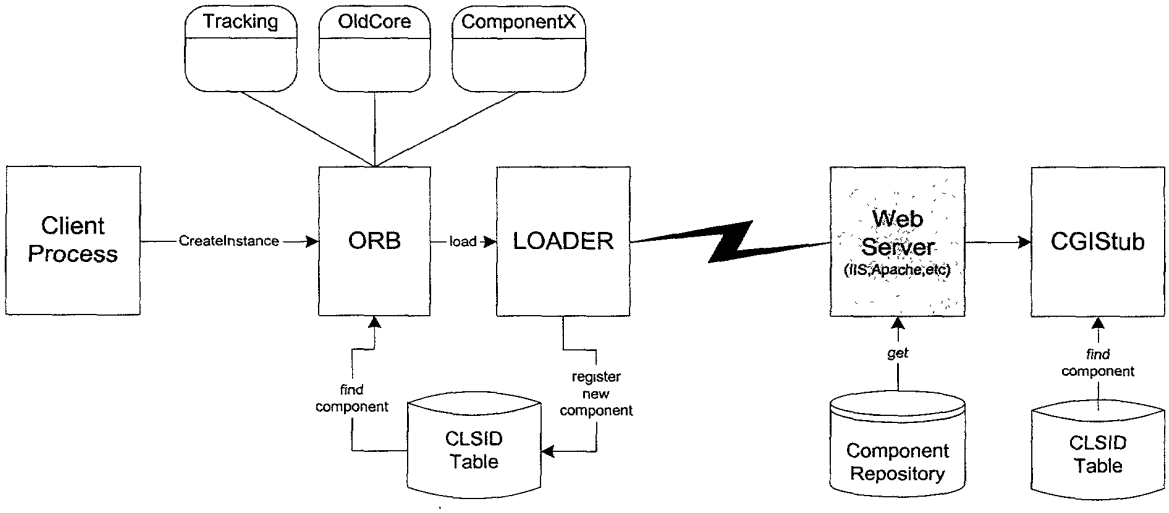


FIG. 26

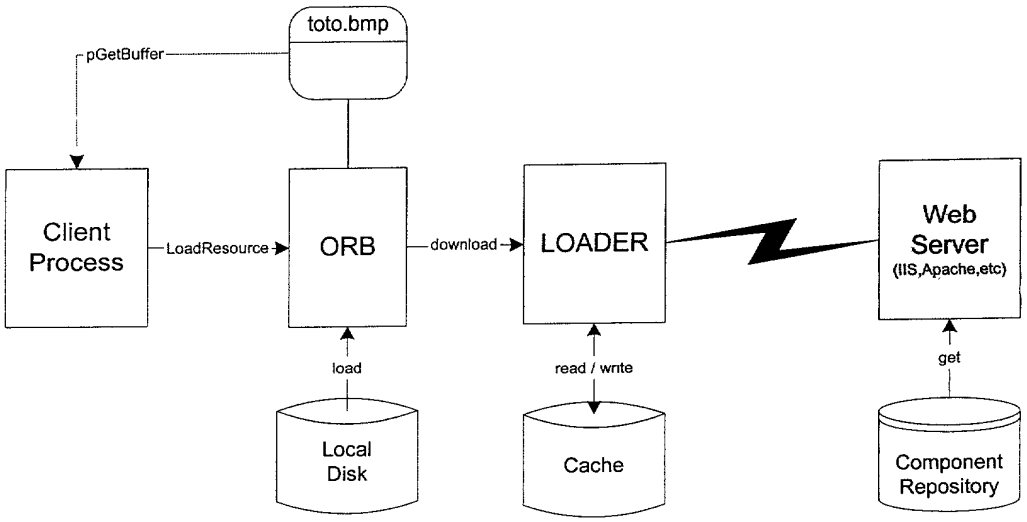


FIG. 27

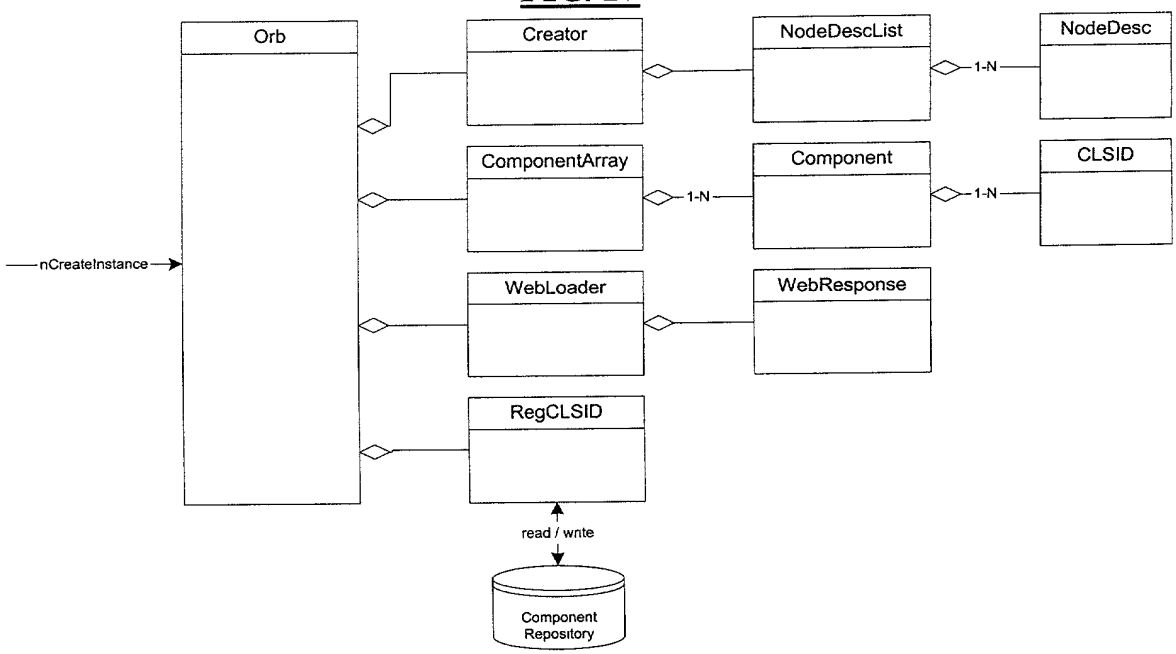


FIG. 28

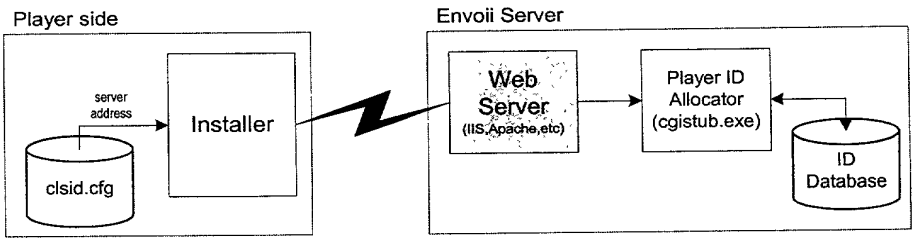


FIG. 29

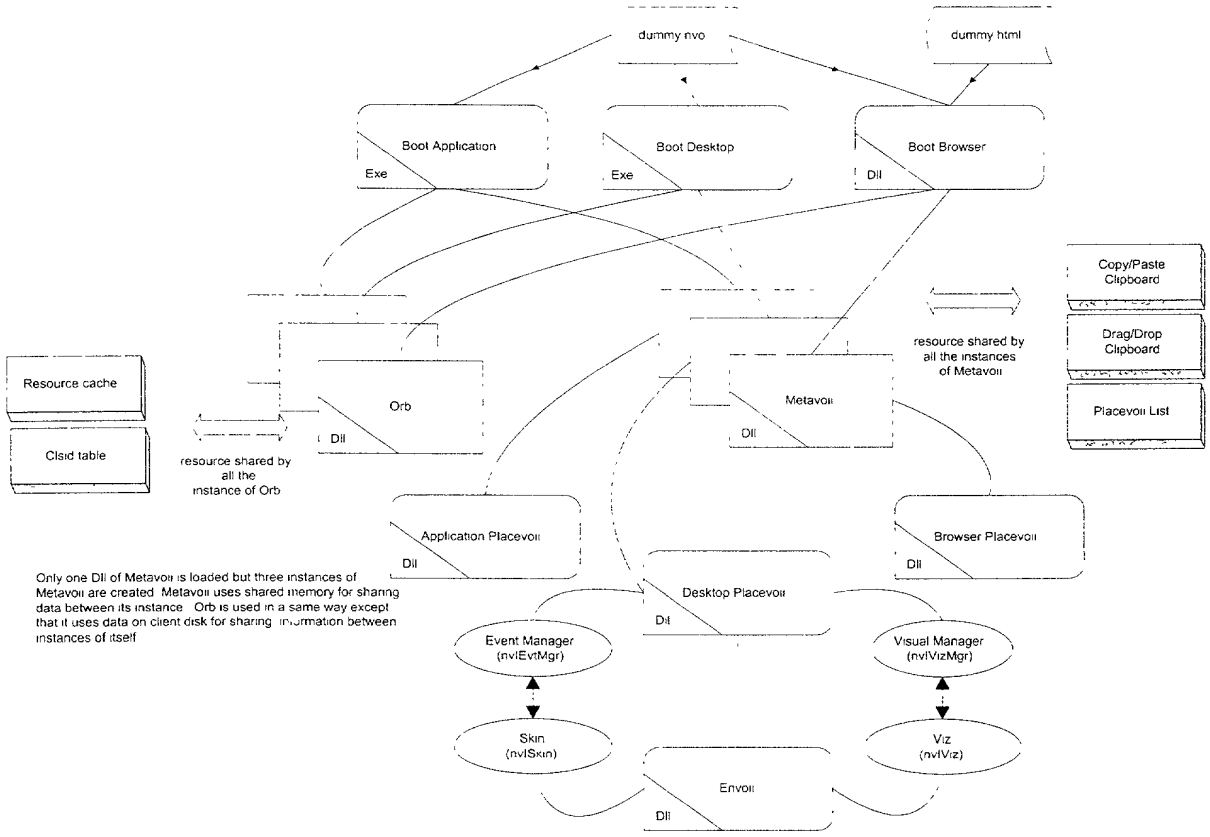

dummy nvo
dummy html
Boot Application
Exe
Boot Desktop
Exe
Boot Browser
Dll
Copy/Paste Clipboard
Drag/Drop Clipboard
Placevoii List
resource shared by all the instances of Metavoii
Resource cache
Clsid table
Orb
Dll
resource shared by all the instance of Orb
Metavoii
Dll
Application Placevoii
Dll
Browser Placevoii
Dll
Desktop Placevoii
Dll
Only one Dll of Metavoii is loaded but three instances of Metavoii are created. Metavoii uses shared memory for sharing data between its instance. Orb is used in a same way except that it uses data on client disk for sharing information between instances of itself
Event Manager (nvIEvtMgr)
Visual Manager (nvIVizMgr)
Skin (nvISkin)
Viz (nvIViz)
Envoii
Dll

FIG. 3D

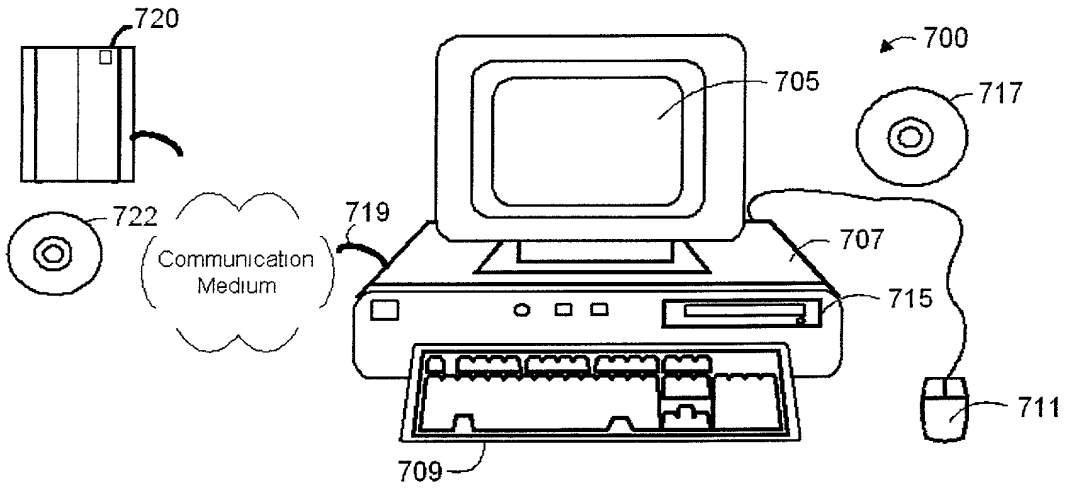


FIG. 31